

Full color LED unit SDM-P10-OSA3Q

The SDM-P10-OSA3Q is a 16×16 full color SMD LED unit which can be used in a wide range of applications such as video screens, graphic, alphabet, numeric, symbol and VMS with no color distribution.

Applications

Full color video screen
 LED display for outdoor concert and performance
 Stadium LED display
 Advertising LED display
 Sport parameter LED screen display

Features

- 1) Build in 3-1 high brightness and wide view angle SMD LED.
- 2) Design of waterproof and good quality LED module with high contrast for incredibly sharp and vivid image display.
- 3) Available for front or rear access.
- 4) 16×16 pixel resolution.
- 5) Module dimensions : 159.6mm×159.6mm×23.1mm.
- 6) Built in color correction MCU enables full color display with no color shift. ^{*option}
- 7) Over thousand million colors at display is available by controlling 4,096 gray-scale for each color.
- 8) 1/4 duty dynamic scan method.
- 9) Brightness adjustment circuit is built in to adjust the whole panel and single pixel brightness. ^{*option}

Specification

Module Dimensions (mm)	Pixel Pitch (mm)	LED Type	Emitting Color	Wavelength (nm)	Pixel size (mm)	Luminance Min. (cd/m ²)	V _{LED} (V)	I _{cc} (A)	Total Resolution	Operating Frequency (MHz)	Drive Method
159.6×159.6	10	SMD	Red	624	3.5×2.8	2,100	5	2 (Max.)	256	10 (Max.)	¼ (shift resistor type External & internal 4,096 gray level)
			Green	527		4,200					
			Blue	470		700					

Interface

Connector pin assignment

Power I/F

Connector used part number : 3047-06FN ALEX Connector Co., Ltd.

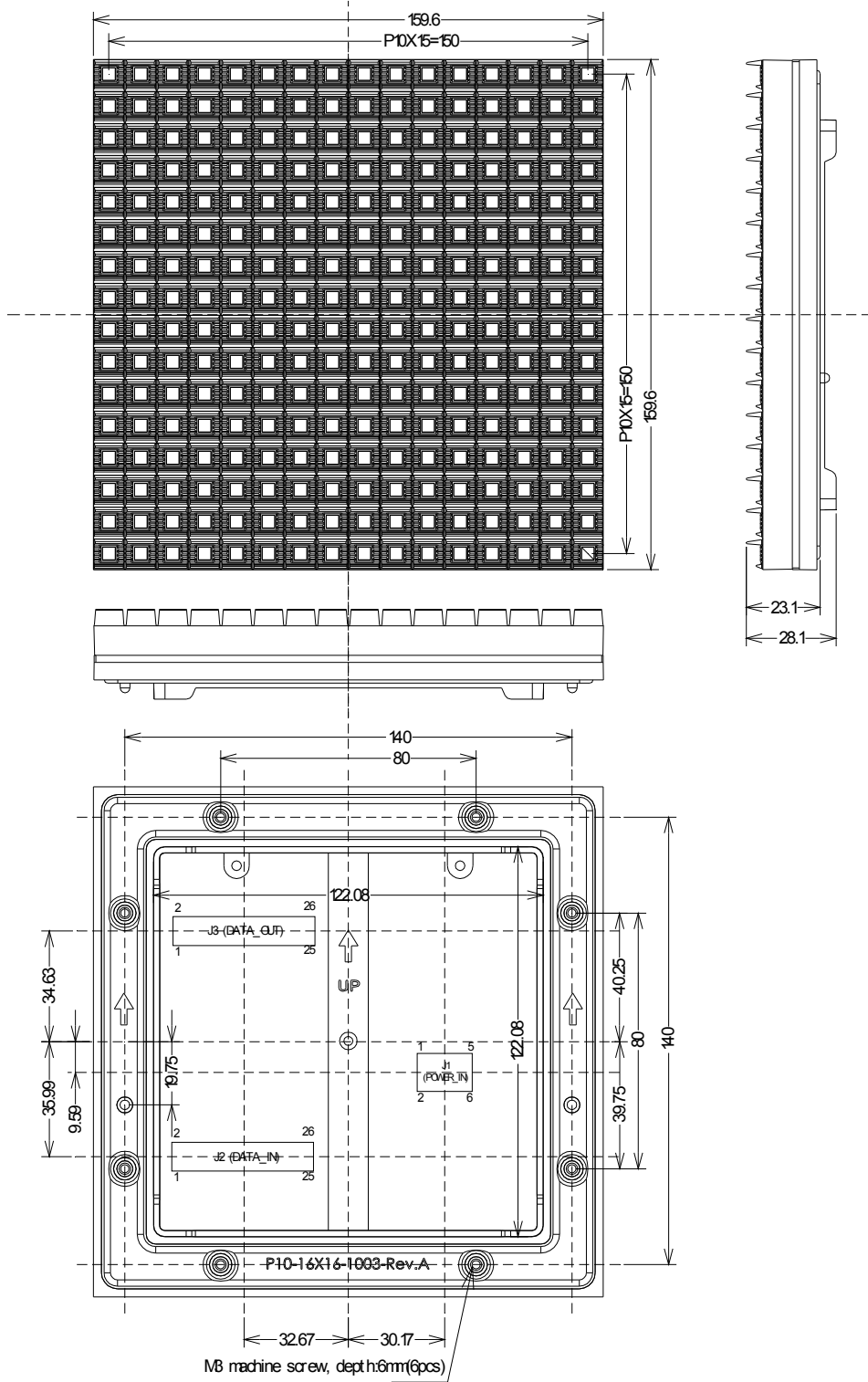
J1	
No.	Signal name
1	GND
2	GND
3	GND
4	VCC
5	VCC
6	VCC

Input, Output I/F

Connector used part number : C05e-26ASA1-G Don Connex Electronics Co., Ltd.

J2				J3			
No.	Signal name	No.	Signal name	No.	Signal name	No.	Signal name
1	GND	2	X	1	GND	2	X
3	X	4	GND	3	X	4	GND
5	X	6	HBI	5	X	6	HBO
7	GND	8	HAI	7	GND	8	HAO
9	GND	10	GCKIB	9	GND	10	GCKOB_B
11	GND	12	GCKIA	11	GND	12	GCKOA_B
13	GND	14	DCKI	13	GND	14	DCKO_B
15	GND	16	LI	15	GND	16	LO_B
17	GND	18	HENI	17	GND	18	HENO
19	BDI	20	GND	19	BDO_B	20	GND
21	GDI	22	RDI	21	GDO_B	22	RDO_B
23	GND	24	VIC	23	GND	24	VIC
25	GND	26	VIC	25	GND	26	VIC

Dimensions



Unit:mm

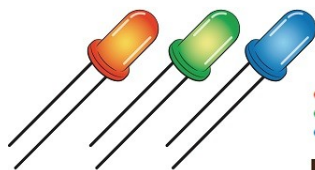
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